



## TOWN OF WEST HARTFORD

### AGENDA ITEM SUMMARY

**To:** Town Council

**From:** Matt Hart, Town Manager

**Date:** 9/25/2018

**CC:** Mark K. McGovern, Director of Community Development

**Subject:** Resolution (Hart) Authorizing the Rehabilitation of the North Main Street Bridge. (569)

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**Background:** The Town of West Hartford has obtained a grant through the State of Connecticut Department of Transportation's Local Bridge Program to rehabilitate the North Main Street Bridge. The North Main Street Bridge is located north of Wyndwood Road and south of Brookside Boulevard. The bridge needs rehabilitation to re-establish its structural integrity. As part of the completion of the design process, the Local Bridge Program requires the Town to submit a Supplemental Agreement, which solidifies the Project Schedule, Scope, and Costs. The construction cost for this project is estimated to be \$2,000,000 with the Town securing a 50 percent construction grant (\$1,000,000).

**Operational Impact:** None

**Financial Impact:** The Town has programmed bond funds in the capital improvement program (CIP) to cover the local share (estimated at \$1,000,000) of this project.

**Legal Review:** Corporation Counsel has reviewed the Supplemental Application and prepared the attached resolution.

**Project Schedule:** Immediate

**Recommendation:** In order to receive the grant funds for this important project, staff recommends Council approval of the attached resolution authorizing the Town Manager to sign the Supplemental Agreement between the Town and the State of Connecticut Department of Transportation.

**Attachments:** Project Narrative and Town Council Resolution

## **RESOLUTION AUTHORIZING THE REHABILITATION OF THE NORTH MAIN STREET BRIDGE**

**WHEREAS**, the Town of West Hartford obtained a grant through the State of Connecticut Department of Transportation's Local Bridge Program to rehabilitate the North Main Street Bridge, under:

State Project Number 9155-3651

Bridge Number 03651

Bridge Location – North Main Street at or over Trout Brook, in West Hartford;

**WHEREAS**, the North Main Street Bridge is located north Wyndwood Road and south of Brookside Boulevard;

**WHEREAS**, the bridge needs rehabilitation to re-establish its structural integrity;

**WHEREAS**, as part of the completion of the design process, the Local Bridge Program requires West Hartford to submit a Supplemental Agreement, which details the updated Project Schedule, Scope, and Costs;

**WHEREAS**, the construction cost for this project is estimated to be \$2,000,000 with West Hartford securing a 50% construction grant (\$1,000,000); and

**NOW, THEREFORE, BE IT RESOLVED BY THE WEST HARTFORD TOWN COUNCIL THAT** approves and authorizes it Town Manager, Matthew W. Hart, to sign the Supplemental Application and any other ancillary documents which may be necessary to effectuate the same related to the aforementioned project.

(Hart)

9/25/18

## MEMORANDUM

FROM: Duane J. Martin, P.E., Town Engineer

RE: North Main Street Bridge Rehabilitation

DATE: September 7, 2018

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The Engineering Division proposes to rehabilitate the North Main Street Bridge, which is located between Linbrook Road and Brookside Boulevard. This bridge crosses over Trout Brook.

The bridge was originally constructed in 1901 and remains for the most part as it was originally constructed as a three-barrel arch concrete structure. This bridge is a valuable infrastructure element to the Town of West Hartford's transportation network. On a daily basis, the bridge facilitates thousands of motorists and many pedestrians providing a vital connection to Town Center, Bishops Corner and many other destinations and integral roadways throughout Town.

A comprehensive structural inspection of the bridge was performed to determine the level of maintenance the bridge required. Based on that inspection, the Town decided to commence a full rehabilitation to the bridge due to its poor condition, which includes extensive concrete deterioration and severe spalling or superficial loss of concrete facing. The rehabilitation is necessary to slow down the bridge's deterioration, eliminate water penetration, improve the bridge load carrying capacity, and extend its service life for the safety of the pedestrians and the traveling public.

The proposed rehabilitation project includes the following:

- Removal of the fill material from the existing arch structure to expose the top of the concrete arch slabs for concrete patching repairs and the placement of a membrane waterproofing.
- Concrete repairs on the underside of the arches and the downstream face of the structure.
- Removal and replacement of the parapets (vertical sides above the sidewalk elevation), including portion of the upstream spandrel wall (vertical section of the bridge below the sidewalk elevation).
- During a low Trout Brook flow time period, install channel revetment as a scour (underwater erosion) countermeasure. This countermeasure is intended to stabilize the channel and protect the crossing from further development of bridge scour.

- Excavate North Main Street at both ends of the bridge to support the excavation at the bridge.

The Town applied for and received grant funding through the Connecticut Department of Transportation's Local Bridge Program to fund part of the proposed bridge rehabilitation project. The Engineering Division retained Tectonic Engineering who completed the bridge rehabilitation design. The Engineering Division obtained an inland wetlands and watercourses permit for the bridge project. The State requires a Supplemental Agreement Application for the project with an updated project schedule, scope, and cost.

